

1 **In the Claims**

2 Claims 1-8 and 10-64 remain in the application and are listed below:

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4 1. **(PREVIOUSLY PRESENTED)** A system for determining context
5 comprising:

6 one or more computer-readable media; and

7 a hierarchical tree structure resident on the media and comprising multiple
8 nodes each of which represent geographical divisions of the Earth, individual
9 nodes comprising an entity identification (EID) that is unique to the node, EIDs
10 serving as a basis by which attributes can be assigned to goods or services
11 associated with an individual node, said multiple nodes comprising parent and
12 children nodes, at least some of the parent nodes and their associated children
13 nodes having EIDs that are unique for the associated node.
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16 2. **(ORIGINAL)** The system of claim 1, wherein the one or more
17 computer-readable media comprise one or more networks.
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20 3. **(ORIGINAL)** The system of claim 1, wherein the nodes comprise
21 political or natural entities.
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D1 1 4. (ORIGINAL) The system of claim 3, wherein the political or
2 natural entities comprises one or more of the following: continents, countries,
3 oceans, states, counties and cities.
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5 5. (ORIGINAL) The system of claim 1, wherein the nodes comprise
6 infrastructure entities.
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8 6. (ORIGINAL) The system of claim 5, wherein the infrastructure
9 entities comprise one or more of the following: postal codes, area codes and time
10 zones.
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12 7. (ORIGINAL) The system of claim 1, wherein the nodes comprise
13 public places.
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15 8. (ORIGINAL) The system of claim 1, wherein the nodes comprise
16 non-physical entities.
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18 9. (CANCELLED).
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20 10. (PREVIOUSLY PRESENTED) The system of claim 1, wherein
21 the nodes comprise a plurality of node attributes and wherein one of the attributes
22 comprises a name attribute.
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3 11. **(PREVIOUSLY PRESENTED)** The system of claim 1, wherein
4 the nodes comprise a plurality of node attributes and wherein one of the attributes
5 comprises a neutral ground truth name attribute.

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7 12. **(ORIGINAL)** The system of claim 1, wherein the nodes comprise a
8 plurality of node attributes and wherein one of the attributes comprises a
9 geographic attribute.

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11 13. **(ORIGINAL)** The system of claim 1, wherein the nodes comprise a
12 plurality of node attributes and wherein one of the attributes comprises a
13 latitude/longitude attribute.

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15 14. **(ORIGINAL)** The system of claim 1, wherein the nodes comprise a
16 plurality of node attributes and wherein one of the attributes comprises a relative
17 importance index.

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20 15. **(ORIGINAL)** The system of claim 1, wherein the nodes comprise a
21 plurality of node attributes and wherein one of the attributes comprises a
22 contextual parent attribute.

DI 1 16. (ORIGINAL) The system of claim 1, wherein the nodes comprise a
2 plurality of node attributes and wherein one of the attributes comprises a source
3 attribute.
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5 17. (ORIGINAL) The system of claim 1, wherein the nodes comprise a
6 plurality of node attributes and wherein one of the attributes comprises a start/end
7 dates attribute.
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9 18. (ORIGINAL) The system of claim 1, wherein the nodes comprise a
10 plurality of node attributes and wherein one of the attributes comprises a
11 modification date attribute.
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13 19. (ORIGINAL) The system of claim 1, wherein the nodes comprise a
14 plurality of node attributes and wherein one of the attributes comprises a status
15 attribute.
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17 20. (ORIGINAL) The system of claim 1, wherein the tree structure
18 does not include any nodal associations with businesses or services.
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20 21. (ORIGINAL) The system of claim 1, wherein the computer-
21 readable media is embodied on a mobile computing device.
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DI 1 22. (ORIGINAL) The system of claim 1, wherein the computer-
2 readable media is embodied on a handheld mobile computing device.

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4 23. (ORIGINAL) The system of claim 1, wherein the computer-
5 readable media is accessible to a mobile computing device via the Internet.

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7 24. (PREVIOUSLY PRESENTED) A system for determining context
8 comprising:

9 one or more computer-readable media;

10 a first hierarchical tree structure having multiple nodes associated with a
11 first context;

12 at least one second hierarchical tree structure having multiple nodes
13 associated with a second context; and

14 at least one node from the at least one second hierarchical tree structure
15 being linked with one node on the first hierarchical tree structure by a link that is
16 configured to enable a complete context to be derived from the first and second
17 contexts, individual nodes having unique IDs that can serve as a basis by which
18 attributes can be assigned to goods or services,

19 said multiple nodes comprising parent and children nodes, at least some of
20 the parent nodes and their associated children nodes having IDs that are unique for
21 the associated node.
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DI 1 25. (ORIGINAL) The system of claim 24, wherein the first and second
2 contexts comprise a location context.

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4 26. (ORIGINAL) The system of claim 24, wherein the nodes of the first
5 hierarchical tree structure comprise geographical divisions of the Earth.

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7 27. (ORIGINAL) The system of claim 26, wherein the nodes of the at
8 least one second hierarchical tree structure comprise physical and/or logical
9 entities.
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12 28. (ORIGINAL) The system of claim 24, wherein the first and the at
13 least one second hierarchical tree structures comprise a plurality of attributes, one
14 of which comprising information that pertains to the tree with which the node is
15 associated.
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18 29. (ORIGINAL) The system of claim 28, wherein the information
19 comprises a universal resource locator (URL).
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21 30. (ORIGINAL) The system of claim 24 further comprising one or
22 more goods or services associated with one or more of the nodes of the at least one
23 second hierarchical tree structure.
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1 **31. (ORIGINAL)** The system of claim 24, wherein the first hierarchical
2 tree structure comprises a standardized view of the Earth, and the at least one
3 second hierarchical tree structure comprises an organization-specific view of at
4 least a portion of the Earth, the organization-specific view comprising a
5 physical/logical entity that links into specific portions of the Earth.
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7 **32. (ORIGINAL)** The system of claim 31, wherein the organization-
8 specific view has no context outside of the organization.
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10 **33. (ORIGINAL)** The system of claim 24, wherein the computer-
11 readable media is embodied on a mobile computing device.
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13 **34. (ORIGINAL)** The system of claim 24, wherein the computer-
14 readable media is embodied on a desktop device.
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16 **35. (ORIGINAL)** The system of claim 24, wherein the computer-
17 readable media is embodied a handheld mobile computing device.
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19 **36. (ORIGINAL)** The system of claim 24, wherein the computer-
20 readable media is accessible to a computing device via the Internet.
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DI 37. (PREVIOUSLY PRESENTED) A computer-implemented method
of determining context comprising:

accessing first and one or more second hierarchical tree structures that are
resident on one or more computer-readable media, each tree structure having
multiple nodes, the nodes of the first hierarchical tree structure being associated
with a first context, the nodes of the one or more second hierarchical tree
structures being associated with a second context; and

traversing multiple nodes of at least one of the tree structures to derive a
context, individual nodes having unique IDs that can serve as a basis by which
attributes can be assigned to goods or services, said multiple nodes comprising
parent and children nodes, at least some of the parent nodes and their associated
children nodes having IDs that are unique for the associated node.

38. (ORIGINAL) The computer-implemented method of claim 37,
wherein the traversing derives a location context.

39. (ORIGINAL) The computer-implemented method of claim 37,
wherein the nodes of the first hierarchical tree comprise geographical divisions of
the Earth.

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40. (ORIGINAL) The computer-implemented method of claim 39, wherein the nodes of the one or more second hierarchical tree comprise physical and/or logical entities.

41. (ORIGINAL) The computer-implemented method of claim 37, wherein the traversing comprises traversing at least one node on each tree to derive the context.

42. (ORIGINAL) The computer-implemented method of claim 41, wherein the context comprises a location.

43. (ORIGINAL) The computer-implemented method of claim 37, wherein the first and one or more second hierarchical tree structures comprise at least one node pair that is linked.

44. (ORIGINAL) The computer-implemented method of claim 37, wherein at least one of the nodes of the one or more second hierarchical tree structures has a good or a service associated with it, and wherein the traversing comprises locating a good or a service associated with a node and consuming the good or service.

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1 **45. (ORIGINAL)** The computer-implemented method of claim 37,
2 wherein the accessing of the first and the one or more second hierarchical tree
3 structures comprises accessing tree structures that are locally available on a mobile
4 computing device.

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6 **46. (ORIGINAL)** The computer-implemented method of claim 37,
7 wherein the accessing of the first and the one or more second hierarchical tree
8 structures comprises accessing at least one of the trees via a network medium.
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11 **47. (ORIGINAL)** The computer-implemented method of claim 37,
12 wherein the accessing of the first and the one or more second hierarchical tree
13 structures comprises accessing at least one of the trees via the Internet.
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15 **48. (PREVIOUSLY PRESENTED)** One or more computer-readable
16 media having computer-readable instructions thereon which, when executed by a
17 computing device, cause the computing device to:
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19 access first and second hierarchical tree structures, each tree structure
20 having multiple nodes, the nodes of the first hierarchical tree structure being
21 associated with a first location context, the nodes of the second hierarchical tree
22 structure being associated with a second location context, at least one node of the
23 second hierarchical tree structure being linked with a node of the first hierarchical
24 tree structure; and
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1 traverse at least one node of each tree structure to derive a location context,
2 at least one node in a traversal path that leads to a root node of the second
3 hierarchical tree structure being linked with a node of the first hierarchical tree
4 structure, individual nodes having unique IDs that can serve as a basis by which
5 attributes can be assigned to goods or services, said multiple nodes comprising
6 parent and children nodes, at least some of the parent nodes and their associated
7 children nodes having IDs that are unique for the associated node.
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10 **49. (ORIGINAL)** The one or more computer-readable media of claim
11 48, wherein the computing device automatically determines its location context.
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13 **50. (ORIGINAL)** The one or more computer-readable media of claim
14 48, wherein the computing device is a handheld computing device.
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16 **51. (ORIGINAL)** The one or more computer-readable media of claim
17 48, wherein the computing device is a mobile computing device.
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20 **52. (ORIGINAL)** The one or more computer-readable media of claim
21 48, wherein the computing device is a desktop device.
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53. (ORIGINAL) The one or more computer-readable media of claim 48, wherein the computing device is a handheld computing device that automatically determines its location context.

54. (PREVIOUSLY PRESENTED) A computer-implemented method of locating goods or services comprising:

defining a hierarchical tree structure comprising multiple nodes that each can define a physical or logical entity, said multiple nodes comprising parent and children nodes, at least some of the parent nodes and their associated children nodes having IDs that are unique for the associated node;

associating one or more goods or services with one or more of the nodes; and

traversing one or more of the multiple nodes to discover a good or service.

55. (ORIGINAL) The computer-implemented method of claim 54 further comprising linking one or more of the multiple nodes with another hierarchical tree structure that contains multiple nodes that each represent a geographical division of the Earth.

56. (ORIGINAL) The computer-implemented method of claim 55, wherein the traversing enables a current location to be determined.

57. (PREVIOUSLY PRESENTED) One or more computer-readable
having computer-readable instructions thereon which, when executed by a
computing device, cause the computing device to:

define a hierarchical tree structure comprising multiple nodes that each can
define a physical or logical entity, said multiple nodes comprising parent and
children nodes, at least some of the parent nodes and their associated children
nodes having IDs that are unique for the associated node;

associate one or more goods or services with one or more of the nodes; and

traverse one or more of the multiple nodes to discover a good or service.

58. (PREVIOUSLY PRESENTED) A computer-implemented method
of building context-aware data structures comprising:

receiving input from a source that specifies information pertaining to
physical and/or logical entities;

processing the information to define a hierarchical tree structure having a
context, the tree structure comprising multiple nodes each of which represent a
separate physical or logical entity, said multiple nodes comprising parent and
children nodes, at least some of the parent nodes and their associated children
nodes having IDs that are unique for the associated node;

linking at least one of the multiple nodes to a node of another tree structure
having a context and multiple nodes that represent physical and/or logical entities,

01 individual nodes having unique IDs that can serve as a basis by which attributes can be assigned to goods or services,

the tree structures being configured for traversal in a manner that enables context to be derived from one or more of the nodes.

59. (ORIGINAL) The computer-implemented method of claim 58, wherein the context that is derived comprises a location context.

60. (ORIGINAL) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computing device, cause the computing device to implement the method of claim 58.

61. (PREVIOUSLY PRESENTED) A system for determining context comprising:

one or more computer-readable media; and

a hierarchical tree structure resident on the media and comprising multiple nodes each of which represent geographical divisions of the Earth, individual nodes comprising an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node, said multiple nodes comprising parent and children nodes, at least some of the parent nodes and their associated children nodes having EIDs that are unique for the associated node;

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1 wherein at least some of the nodes comprise a node selected from a group
2 of nodes comprising: political entities, natural entities, infrastructure entities, and
3 public places.
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5 **62. (PREVIOUSLY PRESENTED)** A system for determining context
6 comprising:

7 one or more computer-readable media;
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9 a first hierarchical tree structure having multiple nodes associated with a
10 first context;

11 at least one second hierarchical tree structure having multiple nodes
12 associated with a second context; and

13 at least one node from the at least one second hierarchical tree structure
14 being linked with one node on the first hierarchical tree structure by a link that is
15 configured to enable a complete context to be derived from the first and second
16 contexts, individual nodes having unique IDs that can serve as a basis by which
17 attributes can be assigned to goods or services,
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19 said multiple nodes comprising parent and children nodes, at least some of
20 the parent nodes and their associated children nodes having IDs that are unique for
21 the associated node;

22 wherein the nodes of the first hierarchical tree structure comprise
23 geographical divisions of the Earth;
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wherein the first and the at least one second hierarchical tree structures comprise a plurality of attributes, one of which comprising information that pertains to the tree with which the node is associated.

63. (PREVIOUSLY PRESENTED) A computer-implemented method of determining context comprising:

accessing first and one or more second hierarchical tree structures that are resident on one or more computer-readable media, each tree structure having multiple nodes, the nodes of the first hierarchical tree structure being associated with a first context, the nodes of the one or more second hierarchical tree structures being associated with a second context; and

traversing multiple nodes of at least one of the tree structures to derive a context, individual nodes having unique IDs that can serve as a basis by which attributes can be assigned to goods or services, said multiple nodes comprising parent and children nodes, at least some of the parent nodes and their associated children nodes having IDs that are unique for the associated node;

wherein the nodes of the first hierarchical tree comprise geographical divisions of the Earth; and

wherein the traversing comprises traversing at least one node on each tree to derive the context.

DI 64. (PREVIOUSLY PRESENTED) One or more computer-readable
media having computer-readable instructions thereon which, when executed by a
handheld, mobile computing device, cause the computing device to:

access first and second hierarchical tree structures, each tree structure
having multiple nodes, the nodes of the first hierarchical tree structure being
associated with a first location context, the nodes of the second hierarchical tree
structure being associated with a second location context, at least one node of the
second hierarchical tree structure being linked with a node of the first hierarchical
tree structure; and

traverse at least one node of each tree structure to derive a location context,
at least one node in a traversal path that leads to a root node of the second
hierarchical tree structure being linked with a node of the first hierarchical tree
structure, individual nodes having unique IDs that can serve as a basis by which
attributes can be assigned to goods or services, said multiple nodes comprising
parent and children nodes, at least some of the parent nodes and their associated
children nodes having IDs that are unique for the associated node.